

## Contents

Bonsignore, Carol L., s. Hepler, P. K.	
Cho, Soon-Ok, Wick, Susan M., Distribution and function of actin in the developing stomatal complex of winter rye ( <i>Secale cereale</i> cv. Puma)	154
Elsner-Menzel, Christine, s. Menzel, D.	
Emter, O., Falk, H., Sitte, P., Specific carotenoids and proteins as prerequisites for chromoplast tubule formation	128
Falk, H., s. Emter, O.	
Fast, H., s. Quader, H.	
Giddings, T. H., Jr., s. Kiss, J. Z.	
Giddings, T. H., Jr., s. Staehelin, L. A.	
Goff, Lynda J., s. McNaughton, Eugenia E.	
Goodbody, K. C., Lloyd, C. W., Actin filaments line up across <i>Tradescantia</i> epidermal cells, anticipating wound-induced division planes	92
Grolig, F., Weigang-Köhler, Karin, Wagner, G., Different extend of F-actin bundling in walled cells and in protoplasts of <i>Mougeotia scalaris</i>	225
Heath, I. B., s. Jackson, Sandra L.	
Hepler, P. K., Bonsignore, Carol L., Caffeine inhibition of cytokinesis: ultrastructure of cell plate formation/degradation	182
Jackson, Sandra L., Heath, I. B., Evidence that actin reinforces the extensible hyphal apex of the oomycete <i>Saprolegnia ferax</i>	144
Jackson, S., s. Newcomb, W.	
Jarman, M., Pickett-Heaps, J., Cell division and nuclear movement in the saccoderm desmid <i>Netrium interruptus</i>	136
Jarosch, R., Lateral hydrodynamic effects of rotating cytoskeletal components as possible determining factors for cytomorphogenesis in plant cells	38
Kaneko, Y., Newcomb, E. H., Specialization for ureide biogenesis in the root nodules of black locust ( <i>Robinia pseudoacacia</i> L.), an amide exporter	102
Kiss, J. Z., Giddings, T. H., Jr., Staehelin, L. A., Sack, F. D., Comparison of the ultrastructure of conventionally fixed and high pressure frozen/freeze substituted root tips of <i>Nicotiana</i> and <i>Arabidopsis</i>	64
Kiss, J. Z., s. Staehelin, L. A.	
Kuntner, O., s. Molitor, V.	
Lichtscheidl, Irene K., Url, W. G., Organization and dynamics of cortical endoplasmic reticulum in inner epidermal cells of onion bulb scales	203
Linder, B., s. Weisenseel, M. H.	
Lloyd, C. W., s. Goodbody, K. C.	
McNaughton, Eugenia E., Goff, Lynda J., The role of microtubules in establishing nuclear spatial patterns in multinucleate green algae	19
Meindl, Ursula, Effects of temperature on cytomorphogenesis and ultrastructure of <i>Micrasterias denticulata</i> Bréb.	3
Meindl, Ursula, Url, W., Oswald Kiermayer 1930-1988	1
Menzel, D., Elsner-Menzel, Christine, The microtubule cytoskeleton in developing cysts of the green alga <i>Acetabularia</i> : involvement in cell wall differentiation	52
Molitor, V., Kuntner, O., Sleytr, U. B., Peschek, G. A., The ultrastructure of plasma and thylakoid membrane vesicles from the fresh water cyanobacterium <i>Anacystis nidulans</i> adapted to salinity	112
Newcomb, W., Jackson, S., Racette, S., Torrey, J. G., Ultrastructure of infected cells in the actinorhizal root nodules of <i>Gymnostoma papuanum</i> (Casuarinaceae) prepared by high pressure freezing and chemical fixation	172
Newcomb, E. H., s. Kaneko, Y.	
Palevitz, B. A., Kinetochore behavior during generative cell division in <i>Tradescantia virginiana</i>	120
Peschek, G. A., s. Molitor, V.	
Pickett-Heaps, J., s. Jarman, M.	
Quader, H., Fast, H., Influence of cytosolic pH changes on the organization of the endoplasmic reticulum in epidermal cells of onion bulb scales: acidification by loading with weak organic acids	216
Racette, S., s. Newcomb, W.	
Sack, F. D., s. Kiss, J. Z.	
Sack, F. D., s. Staehelin, L. A.	
Sakiyama, M., Shibaoka, H., Effects of abscisic acid on the orientation and cold stability of cortical microtubules in epicotyl cells of the dwarf pea	165
Shibaoka, H., s. Sakiyama, M.	
Sitte, P., s. Emter, O.	
Sleytr, U. B., s. Molitor, V.	
Staehelin, L. A., Giddings, T. H., Jr., Kiss, J. Z., Sack, F. D., Macromolecular differentiation of Golgi stacks in root tips of <i>Arabidopsis</i> and <i>Nicotiana</i> seedlings as visualized in high pressure frozen and freeze-substituted samples	75
Staehelin, L. A., s. Kiss, J. Z.	
Torrey, J. G., s. Newcomb, W.	
Url, W. G., s. Lichtscheidl, Irene K.	
Url, W., s. Meindl, Ursula	
Wagner, G., s. Grolig, F.	
Weigang-Köhler, Karin, s. Grolig, F.	
Weisenseel, M. H., Linder, B., Polar current patterns in the leaves of the aquatic angiosperm <i>Elodea canadensis</i>	193
Wick, Susan M., s. Cho, Soon-Ok	